## CLAIMS

1. A molded composite article in which a resin member comprising a non-urethane-series thermoplastic resin and a resin member comprising a thermoplastic polyurethane-series resin are directly joined with each other, wherein

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the non-urethane-series thermoplastic resin is a non-urethane-series thermoplastic resin (Ib) or (IIb), and the non-urethane-series thermoplastic resin and the thermoplastic polyurethane-series resin fulfill a following requirement (Ia) or (IIa),

- (Ia): the non-urethane-series thermoplastic resin (Ib) comprises at least one member selected from the group consisting of a polyamide component having an alicyclic ring, and an amino group-containing compound, or
- (IIa): each of the non-urethane-series thermoplastic resin (IIb) and the thermoplastic polyurethane-series resin has a polyether segment.
- 2. A molded composite article according to Claim 1, wherein the non-urethane-series thermoplastic resin (Ib) is (Ib-1) a resin comprising a polyamide component having an alicyclic ring, or (Ib-2) a resin composition comprising a non-urethane-series thermoplastic resin and an amino group-containing compound.
- 3. A molded composite article according to Claim 1, wherein the non-urethane-series thermoplastic resin (Ib) has an amino group in a concentration of not less than 10 mmol/kg.

4. A molded composite article according to Claim 1, wherein in the non-urethane-series thermoplastic resin (Ib), the polyamide component having an alicyclic ring is at least one member selected from the group consisting of an alicyclic polyamide-series resin and an alicyclic polyamide elastomer.

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5. A molded composite article according to Claim 1, wherein in the non-urethane-series thermoplastic resin (Ib), the polyamide component having an alicyclic ring comprises an alicyclic polyamide component which is at least one member selected from the group consisting of an alicyclic

a non-alicyclic polyamide component which is at least one member selected from the group consisting of an aliphatic polyamide-series resin and an aromatic polyamide-series resin.

polyamide-series resin, an alicyclic polyamide elastomer and

an alicyclic polyamide oligomer; and

- 6. A molded composite article according to Claim 1, wherein in the non-urethane-series thermoplastic resin (Ib), the polyamide component having an alicyclic ring is obtainable by using an alicyclic diamine as a diamine component.
- 7. A molded composite article according to Claim 1, wherein the non-urethane-series thermoplastic resin (Ib) comprises a polyamide-series resin, and the proportion (molar ratio) of an alicyclic monomer residue relative to other monomer residue in all polyamide components constituting the polyamide-series resin is the former/the latter = 100/0 to 0.1/99.9.
  - 8. A molded composite article according to Claim 1,

wherein the non-urethane-series thermoplastic resin (Ib) is

(Ib-2) a resin composition which comprises an amino
group-containing compound and a non-urethane-series
thermoplastic resin comprising at least one member selected
from the group consisting of a polyamide-series resin, a
polyester-series resin, a polycarbonate-series resin, a
polyphenylene sulfide-series resin, a polysulfone-series
resin, a thermoplastic polyimide-series resin, a
polyetherketone-series resin, an olefinic resin, a styrenic
resin, a (meth)acrylic resin, and a halogen-containing
vinyl-series resin.

9. A molded composite article according to Claim 1, wherein in the non-urethane-series thermoplastic resin (Ib), the amino group-containing compound has a plurality of primary amino groups in the molecule.

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- 10. A molded composite article according to Claim 1, wherein in the non-urethane-series thermoplastic resin (Ib), the amino group-containing compound has an amino group in a concentration of 40 to 1000 mmol/kg.
- 20 11. A molded composite article according to Claim 1, wherein in the non-urethane-series thermoplastic resin (Ib), the amino group-containing compound is a polyamide oligomer having a number average molecular weight of 500 to 10,000 and an amino group in a concentration of 50 to 700 mmol/kg.
- 12. A molded composite article according to Claim 1, wherein the non-urethane-series thermoplastic resin (Ib) is a resin composition (Ib-2) comprising a non-urethane-series

thermoplastic resin and an amino group-containing compound, and the proportion of the amino group-containing compound is 0.01 to 20 parts by weight relative to 100 parts by weight of the non-urethane-series thermoplastic resin.

13. A molded composite article according to Claim 1, wherein the non-urethane-series thermoplastic resin (Ib) is a resin composition which comprises

a polyamide oligomer; and

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at least one non-urethane-series thermoplastic resin selected from the group consisting of a polyamide-series resin, a polyester-series resin, a polycarbonate-series resin and a polyphenylenesulfide-series resin.

- 14. A molded composite article according to Claim 1, wherein the resin member comprising the non-urethane-series thermoplastic resin (Ib) is directly joined to the resin member comprising at least one thermoplastic polyurethane-series resin selected from the group consisting of a polyester urethane elastomer and a polyether urethane elastomer.
- 15. A molded composite article according to Claim 1, wherein the non-urethane-series thermoplastic resin (IIb) having a polyether segment comprises a polyamide elastomer having a polyoxy $C_{2-4}$ alkylene segment as a soft segment.
  - 16. A molded composite article according to Claim 1, wherein the non-urethane-series thermoplastic resin (IIb) having a polyether segment comprises a polyamide elastomer comprising a polyamide segment and a polyether segment, and the proportion (weight ratio) of the polyamide segment relative

to the polyether segment is, the former/the latter = 9/1 to 2.5/7.5.

17. A molded composite article according to Claim 1, wherein the thermoplastic polyurethane-series resin having a polyether segment comprises a thermoplastic polyether urethane elastomer having a polyoxy $C_{2-4}$ alkylene segment as a soft segment.

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- 18. A molded composite article according to Claim 1, wherein the proportion of the polyether segment in the non-urethane-series thermoplastic resin (IIb) is 10 to 90% by weight relative to the whole resin, and the proportion of the polyether segment in the thermoplastic polyurethane-series resin is 10 to 90% by weight relative to the whole resin.
- 19. A molded composite article according to Claim 1, which is a shoe member or a roll member.
- 20. A non-urethane-series thermoplastic resin directly joinable to a thermoplastic polyurethane-series resin, which is a non-urethane-series thermoplastic resin (Ib) or (IIb), and

the non-urethane-series thermoplastic resin (Ib)

comprises at least one member selected from the group consisting of a polyamide component having an alicyclic ring and an amino group-containing compound, or

the non-urethane-series thermoplastic resin (IIb) comprises a non-urethane-series thermoplastic resin which has a polyether segment and is directly joinable to the thermoplastic polyurethane-series resin having a polyether segment.

- 21. A resin according to Claim 20, which is (Ib-1) a resin comprising a polyamide component having an alicyclic ring or (Ib-2) a resin composition which comprises a non-urethane-series thermoplastic resin and an amino group-containing compound.
- 22. A process for producing a molded composite article recited in claim 1, which comprises

heating at least one resin selected from the group consisting of the non-urethane-series thermoplastic resin and the thermoplastic polyurethane-series resin, and joining the both resins with each other.

23. A process according to Claim 22, which comprises heating at least one resin selected from the group consisting of the non-urethane-series thermoplastic resin and the thermoplastic polyurethane-series resin to be molten,

bringing at least one resin in the molten state into contact with the other resin, and

joining both resins with each other.

24. A process according to Claim 22, wherein the
20 non-urethane-series thermoplastic resin and the thermoplastic
polyurethane-series resin are joined with each other in the
molding process by a molding method selected from the group
consisting of a thermoforming, an injection molding, an
extrusion molding, and a blow molding.

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